EPA WORK ASSIGNMENT NO. 076-2JZZ
EPA CONTRACT NUMBER: 68-W8-0110
FOSTER WHEELER ENVIRONMENTAL CORPORATION

ARCS II PROGRAM

FINAL
SITE INSPECTION PRIORITIZATION (SIP)
DOVER TOWN DUMP SITE
TOWN OF DOVER, DUTCHESS COUNTY
NEW YORK
CERCLIS NO.: NYD980508154

APRIL 1995

VOLUME III OF III

NOTICE

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RECOMMENDATIONS

The overall HRS preliminary score is 6.86. The groundwater, surface water, and air pathways were scored on a potential-to-release basis. The soil pathway was scored on the basis of no areas of observed contamination, since there are no analytical data available to confirm soil contamination or to identify the affected area.

The groundwater pathway score is 6.30 based on potential contamination. Level II chromium contamination of drinking water wells serving 322 people would raise the groundwater pathway score to 55.20 and the overall site score to 28.54; Level I contamination affecting 12 people would raise the pathway score to 56.11 and the site score to 28.98. These scenarios are possible because cadmium was detected in a leachate sample from the site, but unlikely due to cadmium not being detected in any residential wells during NYSDOH water testing.

The surface water pathway score is 12.18 based on potential contamination. Level II chromium contamination at the PPE would raise the pathway score to 67.37 and the site score to 33.83. Cadmium was detected at 20 ppb in a leachate sample at the site; however, cadmium is unlikely to affect the surface water pathway since the concentration of the cadmium would decrease due to the travel distance of 0.18 mile from the leachate to the surface water probable point of entry.

The soil pathway score is 0.00. To increase the overall site score to above 28.50 for the soil pathway, there would need to be on-site workers, on-site residents, and/or sensitive environments located on the landfill. These are all absent from the Dover Town Dump site. It is unlikely that a scenario involving the soil pathway would occur that would increase the overall site score to above 28.50.

The air pathway score is 0.09. To increase the overall site score to above 28.50, with only the air pathway score, there would need to be an on-site population and an observed release. This scenario is unlikely because no ambient air measurements were recorded above background during the Wehran ARCS II site inspection or any previous site inspection and there are no on-site residents or workers in the air pathway. Significant changes at the site would be necessary in order to create a scenario that would increase the site score above 28.50.

Based on the available information and analysis presented herein, a No Further Remedial Action Planned (NFRAP) is recommended for the Dover Town Dump site.

PREscore 3.0 - PRESCORE.TCL File 07/25/94
NPL Characteristics Data Collection Form
DOVER TOWN DUMP - 03/14/95

Record Information

1. Site Name: DOVER TOWN DUMP
   (as entered in CERCLIS)
2. Site CERCLIS Number: NYD980508154
3. Site Reviewer: DONNA BOLNER
4. Date: MARCH 1995
5. Site Location: DOVER, DUTCHESS COUNTY, NEW YORK
   (City/County,State)
6. Congressional District: NY25
7. Site Coordinates: Single

   Latitude: 40 40'48.0" Longitude: 72 34'15.0"

Site Description

1. Setting: Rural
2. Current Owner: Private - Individual
3. Current Site Status: Inactive
4. Years of Operation: Inactive Site,from and to dates: 1968 -1973
5. How Initially Identified: Unknown
6. Entity Responsible for Waste Generation:

   - Landfill
     - Municipal

7. Site Activities/Waste Deposition:

   - Municipal Landfill

Waste Description

8. Wastes Deposited or Detected Onsite:

   - Municipal Waste

Response Actions

9. Response/Removal Actions:

RCRA Information

10. For All Active Facilities, RCRA Site Status:

    - Not Applicable

Demographic Information

11. Workers Present Onsite: No

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 521.1

14. Residential Population Within 4 Miles: 6365.0

Water Use Information

15. Local Drinking Water Supply Source:

    - Ground Water (within 4 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: 4809.8

17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:

    - Private

18. Surface Water Adjacent to/Draining Site:

- Wetland

HRS DOCUMENTATION RECORD
DOVER TOWN DUMP - 03/14/95

1. Site Name: DOVER TOWN DUMP
   (as entered in CERCLIS)

2. Site CERCLIS Number: NYD980508154

3. Site Reviewer: DONNA BOLNER

4. Date: MARCH 1995

5. Site Location: DOVER, DUTCHESS COUNTY, NEW YORK
   (City/County,State)

6. Congressional District: NY25

7. Site Coordinates: Single

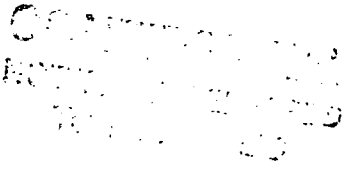
   Latitude: 40 40'48.0" Longitude: 72 34'15.0"

	Score
Ground Water Migration Pathway Score (Sgw)	6.30
Surface Water Migration Pathway Score (Ssw)	12.18
Soil Exposure Pathway Score (Ss)	0.00
Air Migration Pathway Score (Sa)	0.09

Site Score	6.86

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.



GROUND WATER MIGRATION PATHWAY SCORESHEET
DOVER TOWN DUMP - 03/14/95

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer **Aquifer: STONEBRIDGE LIMESTON**		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	5
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	160
3. Likelihood of Release	550	460
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+03
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	10
Targets		
7. Nearest Well	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	3.50E+01
8d. Population (lines 8a+8b+8c)	**	3.50E+01
9. Resources	5	0.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	5.50E+01
12. Targets (including overlaying aquifers)	**	1.13E+02
13. Aquifer Score	100	6.30
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	6.30

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
DOVER TOWN DUMP - 03/14/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	1
2c. Distance to Surface Water	25	9
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	100
3. Potential to Release by Flood		
3a. Containment (Flood)	10	0
3b. Flood Frequency	50	0
3c. Potential to Release by Flood (lines 3a x 3b)	500	0
4. Potential to Release (lines 2d+3c)	500	100
5. Likelihood of Release	550	100
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	10
8. Waste Characteristics	100	18
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	0.00E+00
12. Targets (lines 9+10d+11)	**	0.00E+00
13. DRINKING WATER THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
DOVER TOWN DUMP - 03/14/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	100
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+07
16. Hazardous Waste Quantity	*	10
17. Waste Characteristics	1000	100
Targets		
18. Food Chain Individual	50	2.00E+01
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	3.30E-03
19d. Population (lines 19a+19b+19c)	**	3.30E-03
20. Targets (lines 18+19d)	**	2.00E+01
21. HUMAN FOOD CHAIN THREAT SCORE	100	2.42

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
DOVER TOWN DUMP - 03/14/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	100
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+06
24. Hazardous Waste Quantity	*	10
25. Waste Characteristics	1000	56
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	2.00E+01
26d. Sensitive Environments (lines 26a+26b+26c)	**	2.00E+01
27. Targets (line 26d)	**	2.00E+01
28. ENVIRONMENTAL THREAT SCORE	60	1.36
29. WATERSHED SCORE	100	3.78
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	3.78

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
DOVER TOWN DUMP - 03/14/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: GLACIAL TILL		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	460
3. Likelihood of Release	550	460
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	2.00E+03
5. Hazardous Waste Quantity	*	10
6.Waste Characteristics	100	10
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Targets (lines 7+8d+9)	**	0.00E+00
11. DRINKING WATER THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
DOVER TOWN DUMP - 03/14/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	460
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	1.00E+07
14. Hazardous Waste Quantity	*	10
15. Waste Characteristics	1000	100
Targets		
16. Food Chain Individual	50	1.40E+01
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	0.00E+00
17c. Pot. Human Food Chain Contamination	**	2.31E-03
17d. Population (lines 17a+17b+17c)	**	2.31E-03
18. Targets (lines 16+17d)	**	1.40E+01
19. HUMAN FOOD CHAIN THREAT SCORE	100	7.81

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
DOVER TOWN DUMP - 03/14/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	460
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	1.00E+06
22. Hazardous Waste Quantity	*	10
23. Waste Characteristics	1000	56
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	1.40E+01
24d. Sensitive Environments (lines 24a+24b+24c)	**	1.40E+01
25. Targets (line 24d)	**	1.40E+01
26. ENVIRONMENTAL THREAT SCORE	60	4.37
27. WATERSHED SCORE	100	12.18
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	12.18

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SOIL EXPOSURE PATHWAY SCORESHEET
DOVER TOWN DUMP - 03/14/95

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	10
4. Waste Characteristics	100	18
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	0.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	0.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	0.00E+00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

SOIL EXPOSURE PATHWAY SCORESHEET
DOVER TOWN DUMP - 03/14/95

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	1.00E+01
13. Area of Contamination	100	0.00E+00
14. Likelihood of Exposure	500	0.00E+00
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	10
17. Waste Characteristics	100	18
Targets		
18. Nearby Individual	1	1.00E+00
19. Population Within 1 Mile	**	2.70E-01
20. Targets (lines 18+19)	**	1.27E+00
21. NEARBY POPULATION THREAT SCORE	**	0.00E+00
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

AIR PATHWAY SCORESHEET
DOVER TOWN DUMP - 03/14/95

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	0
2b. Particulate Potential to Release	500	280
2c. Potential to Release	500	280
3. Likelihood of Release	550	280
Waste Characteristics		
4. Toxicity/Mobility	*	8.00E+00
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	2
Targets		
7. Nearest Individual	50	7.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	4.00E+00
8d. Population (lines 8a+8b+8c)	**	4.00E+00
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	2.00E+00
10c. Sens. Environments(lines 10a+10b)	***	2.00E+00
11. Targets (lines 7+8d+9+10c)	**	1.30E+01
AIR MIGRATION PATHWAY SCORE (Sa)	100	8.82E-02

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: DOVER TOWN DUMP

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

WASTE QUANTITY

DOVER TOWN DUMP - 03/14/95

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	DOVER TOWN DUMP
b. Source Type	Landfill
c. Secondary Source Type	N.A.
d. Source Vol.(yd3/gal) | Source Area (ft2)	0.00 | 43560.00
e. Source Volume/Area Value	1.28E+01
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	1.28E+01

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Cadmium	< 2	NO	0.0E+00	ppm
Iron	< 2	NO	0.0E+00	ppm
Lead	< 2	NO	0.0E+00	ppm

Documentation for Source Type:

THE SITE HAS AN INACTIVE LANDFILL LOCATED ON SITE.

Reference: REF. 4, P. 1 OF 8

WASTE QUANTITY
DOVER TOWN DUMP - 03/14/95

Documentation for Source Hazardous Substances:

A LEACHATE SAMPLE WAS COLLECTED ON DECEMBER 17, 1979 BY THE DUTCHESS COUNTY HEALTH DEPARTMENT (DCHD). THE DATA IS NOT VALIDATED FROM THIS SAMPLING EVENT, NOR ARE THERE ANY APPLICABLE BACKGROUND DATA AVAILABLE. HOWEVER, THIS DATA WAS USED TO CHARACTERIZE THE SITE FOR SCRENING PURPOSES.

Reference: REF. 10, P. 1 OF 2

Documentation for Source Area:

THE DOVER TOWN DUMP LANDFILL AREA IS APPROXIMATELY ONE ACRE IN SIZE THEREFORE, USED AREA OF AN ACRE WHICH IS 43,560 SQUARE FEET.

Reference: REF. 4, P. 2 OF 8

WASTE QUANTITY
DOVER TOWN DUMP - 03/14/95

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	DOVER TOWN DUMP	GW-SW-SE-A	1.28E+01	0.00E+00	1.28E+01

WASTE QUANTITY

DOVER TOWN DUMP - 03/14/95

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	2.00E+03	10	10
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	10	18
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+07	10	100
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+06	10	56
SW: GW to SW, DW	Tox./Persistence	2.00E+03	10	10
SW: GW to SW, HFC	Tox./Persis./Bioacc.	1.00E+07	10	100
SW: GW to SW, Env	Etox./Persis./Bioacc.	1.00E+06	10	56
Soil Exposure:Resident	Toxicity	1.00E+04	10	18
Soil Exposure: Nearby	Toxicity	1.00E+04	10	18
Air	Toxicity/Mobility	8.00E+00	10	2

* Hazardous Waste Quantity Factor Values

** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

GROUND WATER PATHWAY AQUIFER SUMMARY
DOVER TOWN DUMP - 03/14/95

No.	Aquifer ID	Type	Overlaying No.	Inter-Connected with	Likelihood of Release	Targets
1	GLACIAL TILL	Non K	0	0	460	7.80E+01
2	STONEBRIDGE LIMESTON	Karst	1	1	460	1.13E+02

Containment

No.	Source ID	HWQ Value	Containment Value
1	DOVER TOWN DUMP	1.28E+01	10
	Containment Factor		10

Documentation for Ground Water Containment, Source DOVER TOWN DUMP:

NO LINER OR LEACHATE CONTROL SYSTEM WAS INSTALLED BEFORE LANDFILLING BEGAN.

Reference: REF. 3, P. 11 OF 221

Net Precipitation

Net Precipitation (inches) N.A.

Documentation for Net Precipitation:

NET PRECIPITATION FACTOR VALUES, HRS FIGURE 3-2, BASED ON SITE LOCATION.

Reference: REF. 1, P. 1 OF 1

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE GLACIAL TILL AQUIFER
DOVER TOWN DUMP - 03/14/95

Aquifer: GLACIAL TILL

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for GLACIAL TILL Aquifer:

UNCONSOLIDATED MATERIAL DEPOSITED CHIEFLY BY GLACIERS AND GLACIAL MELT WATER IN PLEISTOCENE TIME, LIES ON THE BEDROCK IN DUTCHESS COUNTY.
GLACIAL TILL IS NOT A PRODUCTIVE WATER-BEARING DEPOSIT BECAUSE OF ITS POOR SORTING AND HIGH CLAY CONTENT. WATER IN USABLE QUANTITIES CAN GENERALLY BE OBTAINED FROM TILL ONLY FROM LARGE-DIAMETER WELLS.

Reference: REF 13, PP. 5 & 7 OF 10

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination
- N/A and/or data not specified				

Observed Release Factor 0

POTENTIAL TO RELEASE

Containment

Containment Factor	10

Net Precipitation

Net Precipitation Factor	6

Depth to Aquifer

A. Depth of Hazardous Substances	15.00	feet

Documentation for Depth of Hazardous Substances:

WAST WERE LANDFILLED DIRECTLY OVER THE GROUND SURFACE. THE NEW GROUND SURFACE IS ESTIMATED TO BE ABOUT 15 FEET ABOVE THE OLD GROUND SURFACE BASED ON THE OLD DUMP FACE AND COMPACTION.

Reference: REF. 3, P. 48 OF 221

B. Depth to Aquifer from Surface	21.00	feet

Documentation for Depth to Aquifer from Surface :

THE NEW GROUND SURFACE IS ESTIMATED TO BE APPROXIMATELY 15 FEET ABOVE THE OLD GROUND SURFACE AND DOVER SOILS, CONSISTING OF TILL AND WEATHERED PRODUCTS OF THE UNDERLYING LIMESTONE. THE DEPTH TO GROUNDWATER IS ESTIMATED TO BE APPROXIMATELY SIX FEET BELOW THE ORIGINAL GROUND SURFACE, OR APPROXIMATELY 21 FEET BELOW THE NEW GROUND SURFACE.

Reference: REF. 3, PP. 24 AND 48 OF 221

C. Depth to Aquifer (B - A)	6.00	feet
Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO

Documentation for Karst Layers:

MOST OF THE TILL IS CLAYEY AND SOME OF IT MAY EVEN BE CEMENTED OF COMPACTED TO FORM A TOUGH AGGREGATE REFERRED TO AS "HARDPAN" BY LOCAL DRILLERS.

Reference: REF. 13 P. 6 OF 10

Thickness of Layer(s) with Lowest Conductivity	6.00	feet

Documentation for Thickness of Layers with Lowest Conductivity:

DOVER SOILS ARE DERIVED FROM GLACIAL TILL AND WEATHERED PRODUCTS OF THE UNDERLYING LIMESTONE. THE ESTIMATED LAYER BETWEEN THE LOWEST POINT OF CONTAMINATION AT 15 FEET AND THE AQUIFER AT 21 FEET IS THE GLACIAL TILL. HYDRAULIC CONDUCTIVITY DETERMINED FROM HRS TABLE 3-6, SINCE NO DATA IS AVAILABLE.

Reference: REF. 3, P. 24 OF 221; REF. 1, P. 1 OF 1

Hydraulic Conductivity (cm/sec)	1.0E-08

Documentation for Hydraulic Conductivity:

GLACIAL TILL IS NOT A PRODUCTIVE WATER-BEARING DEPOSIT BECAUSE OF ITS POOR SORTING AND HIGH CLAY CONTENT. THEREFORE PER HRS TABLE 3-6, HYDRAULIC CONDUCTIVITY OF 10 -8.

Reference: REF. 13, P. 7 OF 10; 1, P. 1 OF 1

Travel Time Factor	35
Potential to Release Factor	460

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE STONEBRIDGE LIMESTONE AQUIFER
DOVER TOWN DUMP - 03/14/95

Aquifer: STONEBRIDGE LIMESTONE

Type of Aquifer: Karst

Overlaying Aquifer: 1

Interconnected with: 1

Documentation for STONEBRIDGE LIMESTONE Aquifer:

THE STOCKBRIDGE LIMESTONE FORMATION HAS BEEN METAMORPHOSED TO A MARBLE AND THE BED ARE SEVERLY FOLDED. THE STOCKBRIDGE LIMESTONE UNDERLIES A MUCH GREATER PART OF THE COUNTY THAN THE CHESHIRE QUARTZITE. THE COMPOSITION OF THE STOCKBRIDGE LIMESTONE IS:

MAGNESIA (MgO)	16.29%
CARBONIC ACID (H2CO3)	40.76%
ALUMIA (Al2O3)	2.33%
FERRIC OXIDE (Fe2O3)	.47%
SILICA (SiO2)	10.17%

THE THICKNESS OF THE CARBONATE ROCKS IS PROBABLY ABOUT 1,000 FEET IN MOST PLACES IN THE COUNTY. THE STOCKBRIDGE LIMESTONE HAS BEEN EVALUATED AS BEING INTERCONNECTED WITH THE GLACIAL TILL SINCE THE GLACIAL TILL OVERLAYS THE BEDROCK AND NO DATA TO SUPPORT OTHERWISE IS AVAILABLE.

Reference: REF. 13, PP. 2-4 OF 10

OBSERVED RELEASE

No.	Well ID	Well Typ	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Observed Release Factor 0

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE STONEBRIDGE LIMESTONE AQUIFER
DOVER TOWN DUMP - 03/14/95

POTENTIAL TO RELEASE

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	6	

Depth to Aquifer

A. Depth of Hazardous Substances	15.00	feet

Documentation for Depth of Hazardous Substances:

WASTES WERE LANDFILLED DIRECTLY OVER THE GROUND SURFACE. THE NEW GROUND SURFACE IS ESTIMATED TO BE ABOUT 15 FEET ABOVE THE OLD GROUND SURFACE BASED ON THE OLD DUMP FACE AND COMPACTION.

Reference: REF. 3, P. 48 OF 221

B. Depth to Aquifer from Surface	30.00	feet

Documentation for Depth to Aquifer from Surface :

DEPTH TO BEDROCK IS APPROXIMATELY 30 FEET, SINCE THE NEW GROUND SURFACE IS ESTIMATED TO BE 15 FEET ABOVE THE OLD GROUND SURFACE, AND BEDROCK IN THIS REGION IS APPROXIMATELY 15 FEET BELOW THE GROUND SURFACE.

Reference: REF. 3, PP. 25 AND 48 OF 221

C. Depth to Aquifer (B - A)	15.00	feet
Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO

Documentation for Karst Layers:

EVEN THOUGH THE BEDROCK FIRST ENCOUNTERED UNDERLYING THE REGION OF THE LANDFILL IN TH TENMILE RIVER VALLEY IS THE STOCKBRIDGE LIMESTONE/MARBLE, ALL LAYERS ARE NOT CONSIDERED KARST SINCE A LAYER OF GLACIAL TILL SEPARATES THE LOWEST POINT OF HAZARDOUS SUBSTANCES AND THE STOCKBRIDGE LIMESTONE, WHICH IS DESCRIBED AS A SEQUENCE OF WHITE TO GRAY LIMESTONE, DOLOMITE, METAMORPHOSED TO MARBLE IN THE EASTERN PART OF DUTCHESS COUNTY.

Reference: REF. 3, P. 25 OF 221

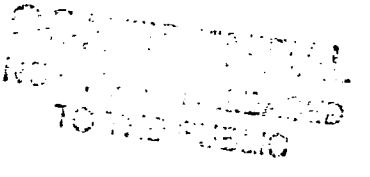
Thickness of Layer(s) with Lowest Conductivity	15.00	feet

Documentation for Thickness of Layers with Lowest Conductivity:

THE LOWEST CONDUCTIVITY LAYER BETWEEN THE DEPTH OF CONTAMINATION AND THE BEDROCK IS THE UPPER AQUIFER. THE THICKNESS OF THIS LAYER OF GLACIAL TILL IS APPROXIMATELY 15 FEET.

Reference: REF. 3, PP. 25 AND 48 OF 221

Hydraulic Conductivity (cm/sec)	1.0E-08



GROUND WATER PATHWAY LIKELIHOOD OF RELEASE STONEBRIDGE LIMESTONE AQUIFER
DOVER TOWN DUMP - 03/14/95

Documentation for Hydraulic Conductivity:

HYDRAULIC CONDUCTIVITY DETERMINED USING HRS TABLE 3-6 FOR GLACIAL TILL.

Reference: REF. 1, P. 1 OF 1

Travel Time Factor	5

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Potential to Release Factor	160

Source: 1 DOVER TOWN DUMP

Source Hazardous Waste Quantity Value: 12.81

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Cadmium	10000	2.00E-01	2.00E+03
Iron	100	1.00E-02	1.00E+00
Lead	10000	2.00E-05	2.00E-01

Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value

- N/A and/or data not specified

Toxicity/Mobility Value from Source Hazardous Substances:	2.00E+03
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	2.00E+03
Sum of Source Hazardous Waste Quantity Values:	1.28E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	10

GROUND WATER PATHWAY TARGETS FOR AQUIFER GLACIAL TILL
DOVER TOWN DUMP - 03/14/95

Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination	Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

GROUND WATER PATHWAY TARGETS FOR AQUIFER GLACIAL TILL
DOVER TOWN DUMP - 03/14/95

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	34.0	5.30E+00
> 1/4 to 1/2	281.8	5.20E+00
> 1 to 2	859.1	9.40E+00
> 2 to 3	1536.5	2.12E+01
> 3 to 4	2004.6	1.31E+01

Potential Contamination Factor: 58.000

Documentation for Target Population > 0 to 1/4 mile Distance Category:

POPULATION WITHIN .25 MILES OF DOVER TOWN DUMP = 34.04 PER CENTRACTS REPORT

Reference: REF. 14, P. 8 OF 16

Documentation for Target Population > 1/4 to 1/2 mile Distance Category:

POPULATION WITHIN .5 MILES OF DOVER TOWN DUMP SITE = 81.61, PER CENTRACTS REPORT

Reference: REF. 14, P. 8 OF 16

Documentation for Target Population > 1/2 to 1 mile Distance Category:

POPULATION WITHIN 1 MILE OF THE DOVER TOWN DUMP SITE = 293.92, PER CENTRACTS REPORT

Reference: REF. 14, P. 7 OF 16

Documentation for Target Population > 1 to 2 miles Distance Category:

POPULATION WITHIN 2 MILES OF THE DOVER TOWN DUMP SITE = 859.15, PER CENTRACTS REPORT.

Reference: REF. 14, P. 7 OF 16

Documentation for Target Population > 2 to 3 miles Distance Category:

POPULATION WITHIN 3 MILES OF THE DOVER TOWN DUMP SITE = 1536.47, PER CENTRACTS REPORT. 3 MILE POPULATION INCLUDES RESIDENTS OF CONNECTICUT. CALCULATION:
(1515.30) NY RESIDENTS + (21.17) CT RESIDENTS = 1536.47

Reference: REF. 14, PP. 7 AND 16 OF 16

Documentation for Target Population > 3 to 4 miles Distance Category:

POPULATION WITHIN 4 MILES OF THE DOVER TOWN DUMP SITE = 2004.62, PER CENTRACTS REPORT. 4 MILE POPULATION ILUDES RESIDENTS OF CONNECTICUT. CALCULATION:
(1712.03) NY RESIDENTS + (292.59) CT RESIDENTS = 2004.62

Reference: REF. 14, PP. 7 AND 16 OF 16

Nearest Well

Level of Contamination: Potential
Distance in miles: 0.14

Nearest Well Factor: 2.00E+01

Documentation for Nearest Well:

THE NEAREST WELL IS LOCATED AT A RESIDENCE ON CRICKETT HILL ROAD APPROXIMATELY 700 FEET SOUTH-SOUTHEAST OF THE DOVER TOWN DUMP SITE.

Reference: REF. 4, P. 3 OF 8

Resources

Resource Use: NO

Resource Factor: 0.00E+00

Documentation for Resources:

NO RESOURCES IDENTIFIED

Reference:

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

Documentation for Wellhead Protection Area:

THE DOVER TOWN DUMP SITE IS NOT LOCATED IN A WELLHEAD PROTECTION AREA. DUTCHESS COUNTY USES THE 200 FEET RADIUS OF PROTECTION (AROUND ANY PUBLIC WELL) METHOD. THEREFORE, SINCE THE SITE IS MORE THAN 1 MILE AWAY FROM THE CLOSEST PUBLIC WELL, THE SITE IS NOT CONSIDERED TO BE IN AN AREA OF PROTECTION.

Reference: REF. 27, P. 1 OF 1; REF. 5, PP. 2-4 OF 4

GROUND WATER PATHWAY TARGETS FOR AQUIFER STONEBRIDGE LIMESTONE
DOVER TOWN DUMP - 03/14/95

Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination	Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	0.0	0.00E+00
> 1 to 2	219.0	8.20E+00
> 2 to 3	28.0	9.00E-01
> 3 to 4	419.0	2.61E+01

Potential Contamination Factor: 35.000

Documentation for Target Population > 0 to 1/4 mile Distance Category:

NO COMMUNITY WELLS WITHIN 1/4 MILE

Reference: REF. 5, PP. 2 THROUGH 4 OF 4

Documentation for Target Population > 1/4 to 1/2 mile Distance Category:

NO POPULATION ON COMMUNITY WELLS WITHIN 1/2 MILE

Reference: REF. 5, PP. 2 THROUGH 4 OF 4

Documentation for Target Population > 1/2 to 1 mile Distance Category:

NO POPULATION WITHIN 1 MILE ON COMMUNITY WATER

Reference: REF. 5, PP. 2 THROUGH 4 OF 4

GROUND WATER PATHWAY TARGETS FOR AQUIFER STONEBRIDGE LIMESTONE
DOVER TOWN DUMP - 03/14/95

Documentation for Target Population > 1 to 2 miles Distance Category:

THE STOCKBRIDGE LIMESTONE IS THE MOST PRODUCTIVE BEDROCK FORMATION IN THE (DUTCHESS) COUNTY, YIELDS AVERAGING ABOUT 22 GPM AND RANGING UP TO 220 GPM. THEREFORE, MOST COMMUNITY WELLS WILL BE TAPPED INTO THE BEDROCK. POPULATION SERVED BY TH WELLS ARE AS FOLLOWS:
SCHREIBER WATER WORKS, 1.5 MILES, SERVES 110
CEDAR LANE MOBILE HOME PARK #2, 1.5 MILES, SERVES 28
LAKE ELLIS MOBILE HOME PARK, 2.0 MILES, SERVES 81

Reference: REF. 9, P. 9 OF 10; REF. 5, PP. 2 THROUGH 4 OF 4

Documentation for Target Population > 2 to 3 miles Distance Category:

THE STOCKBRIDGE LIMESTONE IS THE MOST PRODUCTIVE BEDROCK FORMATION IN THE (DUTCHESS) COUNTY, YIELDS AVERAGING ABOUT 22 GPM AND RANGING UP TO 220 GPM. THEREFORE, MOST COMMUNITY WELLS WILL BE TAPPED INTO THE BEDROCK. POPULATION SERVED BY THESE WELLS ARE AS FOLLOWS:
EAST MOUNTAIN TRAILER PARK, 2.2 MILES, SERVES 28

Reference: REF. 13, P. 9 OF 10; REF. 5 PP. 2 AND 4 OF 4

Documentation for Target Population > 3 to 4 miles Distance Category:

THE STOCKBRIDGE LIMESTONE IS THE MOST PRODUCTIVE BEDROCK FORMATION IN THE (DUTCHESS) COUNTY, YIELDS AVERAGING ABOUT 22 GPM AND RANGING UP TO 220 GPM. THEREFORE, MOST COMMUNITY WELL WILL BE TAPPED INTO THE BEDROCK. POPULATION SERVED BY THESE WELLS ARE AS FOLLOWS:
ANGELS TRAILER PARK, 3.7 MILES, SERVES 40
BROOKS MOBILE HOME PARK, 3.9 MILES, SERVES 25
CANNONS TRAILER PARK, 3.8 MILES, SERVES 16
HIGH MEADOWS PARK INC., 3.0 MILES, SERVES 196
RAMSEY'S TRAILER PARK, 3.5 MILES, SERVES 28
SHADY HOMES TRAILER PARK, 3.6 MILES, SERVES 42
WINGDALE VILLAGE PARK, 3.4 MILES, SERVES 72

Reference: REF. 13, P. 9 OF 10; REF. 5, PP. 2 THROUGH 4 OF 4

GROUND WATER PATHWAY TARGETS FOR AQUIFER STONEBRIDGE LIMESTONE
DOVER TOWN DUMP - 03/14/95

Nearest Well

Level of Contamination: Potential
Distance in miles: 0.14

Nearest Well Factor: 2.00E+01

Documentation for Nearest Well:

THE NEAREWELL IS LOCATED AT A RESIDENCE ON CRICKETT HILL ROAD APPROXIMATELY 700 FEET SOUTH-SOUTHEAST OF THE DOVER TOWN DUMP.

Reference: REF. 4, P. 3 OF 8

Resources

Resource Use: NO

Resource Factor: 0.00E+00

Documentation for Resources:

NO RESOURCES IDENTIFIED

Reference: REF. 4, PP. 1-4 OF 8

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

GROUND WATER PATHWAY TARGETS FOR AQUIFER STONEBRIDGE LIMESTONE
DOVER TOWN DUMP - 03/14/95

Documentation for Wellhead Protection Area:

THE DOVER TOWN DUMP IS NOT LOCATED IN A WELLHEAD PROTECTION AREA. DUTCHESS COUNTY USES THE 200 FEET RADIUS OF PROTECTION (AROUND ANY PUBLIC WELL) METHOD. THEREFORE, SINCE THE CLOSEST PUBLIC WELL TO THE SITE IS MORE THAN 1 MILE AWAY, THE DOVER TOWN DUMP SITE IS NOT LOCATED IN ANY WELLHEAD PROTECTION AREA.

Reference: REF. 27, P. 1 OF 1; REF. 5, PP. 2-4 OF 4

SURFACE WATER PATHWAY SEGMENT SUMMARY
DOVER TOWN DUMP - 03/14/95

No.	Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)
1	SWAMP RIVER	River	Fresh	0.00	6.80	2
2	TEN MILE RIVER	River	Fresh	6.80	15.00	10

Documentation for segment: SWAMP RIVER:

SURFACE WATER FROM THE DOVER TOWN DUMP SITE FIRST ENTERS AN UNAMED STATE/FEDRRAL REGULATED WETLAND LOCATED DIRECTLY SOUTH OF THE SITE BEFORE ENTERING THE SWAMP RIVER APPROXIMATELY .58 MILES FROM THE WETLANDS. THE SWAMP RIVER IS A NYS CLASS C WATERWAY, SUITABLE FOR FISHING AND FIS PROPAGATION. THE WATER QUALITY SHALL BE SUITABLE FOR PRIMARY AND SECONDARY CONTACT RECREATION EVEN THOUGH OTHER FACTORS MAY LIMIT THE USE FOR THAT PURPOSE.

Reference: REF. 17, PP. 4 & 7 OF 8; REF. 21, P. 1 OF 1

Documentation for segment: TEN MILE RIVER:

TENMILE RIVER IS A NYS CLASS C WATERWAY, SUITABLE FOR FISHING AND FISH PROPAGATION. THE WATER QUALITY SHALL BE SUITABLE FOR PRIMARY AND SECONDARY CONTACT RECREATION EVEN THOUGH OTHER FACTORS MAY LIMIT THE USE FOR THAT PURPOSE.

Reference: REF. 17, PP. 3 & 7 OF 8

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
DOVER TOWN DUMP - 03/14/95

OBSERVED RELEASE

No.	Sample ID	Sample Type	Distance (miles)	Level of Contamination DW	HFC	Env

- N/A and/or data not specified

Observed Release Factor 0

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
DOVER TOWN DUMP - 03/14/95

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

No.	Source ID	HWQ Value	Containment Value
1	DOVER TOWN DUMP	1.28E+01	10

Containment Factor: 10

Documentation for Overland Flow Containment, Source DOVER TOWN DUMP:

LANDFILL HAS NO LINER.

Reference: REF. 3, PG. 49 OF 221

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
DOVEROWN DUMP - 03/14/95

Distance to Surface Water

Distance to Surface Water: 1200.0 feet

Distance to Surface Water Factor: 9

Documentation for Distance to Surface Water:

SURFACE WATER IS DIRECTED TO THE STATE/FEDERAL REGULATED WETLAND SOUTH OF THE DOVER TOWN DUMP SITE, WHICH IS APPROXIMATELY 1200 FEET FROM THE SITE.

Reference: REF. 21, P. 1 OF 1

Runoff

A. Drainage Area: 5.0 acres

Documentation for Drainage Area:

THE DOVER TOWN DUMP SITE IS BETWEEN 3 TO 5 ACRES IN SIZE, AND IS SURROUNDED ON THREE SIDES BY SMALL RIDGES.

Reference: REF. 3, PP. 22-23 OF 221

B. 2-year, 24-hour Rainfall: 3.0 inches

Documentation for Rainfall:

2-YEAR 24-HOUR RAINFALL FOR THE DOVER TOWN DUMP SITE = 3 INCHES.

Reference: REF. 16, P. 2 OF 2

C. Soil Group: B
Medium-textured soils with moderate infiltration rates

Documentation for Soil Group:

THE SOILS FROM LIMESTONE HAVE DEVELOPED FROM GLACIAL TILL IN WHICH THE PRINCIPAL ROCK MATERIAL IS LIMESTONE. IN ASSOCIATION WITH THEM, WHERE THE LIMESTONE IN THE TILL IS MAINLY CRYSTALLINE (APPROACHING A MARBLE), THE SANDY WELL-DRAINED DOVER SOILS HAVE DEVELOPED. DOVER SOILS VARY FROM A FEW INCHES TO 6 FEET DEEP OVER BEDROCK.

Reference: REF. 25, P. 2 OF 4

Runoff Factor: 1

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Potential to Release by Overland Flow Factor: 100

SURFACE WATER PATHWAYVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
DOVER TOWN DUMP - 03/14/95

Potential to Release by Flood

No.	Source ID	HWQ Value	Flood Containment Value	Flood Frequency Value	Potential to Release by Flood

- N/A and/or data not specified

Potential to Release by Flood Factor: 0

Documentation for Flood Containment, Source DOVER TOWN DUMP:

DURING THE SITE INSPECTION, NO SOURCE FOR CONTAINMENT WAS OBSERVED. THEREFORE DEFERRED TO "NOT CONTAINED FOR ANY FLOOD".

Reference: REF. 4, PP. 1-4 OF 8

Documentation for Flood Frequency, Source DOVER TOWN DUMP:

DOVER TOWN DUMP IS LOCATED IN AN AREA OF MINIMAL FLOODING.THE CLOSEST CHOICE AVAILABLE IN PRESCORE IS SOURCE NOT IN A FLOODPLAIN.

Reference: REF. 15, PP. 1-4 OF 4

SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Source: 1 DOVER TOWN DUMP

Source Hazardous Waste Quantity Value: 12.81

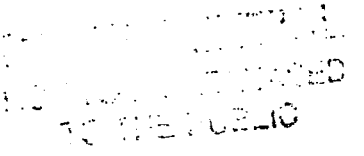
Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Cadmium	10000	1.00E+00	1.00E+04
Iron	0	1.00E+00	0.00E+00
Lead	10000	1.00E+00	1.00E+04

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value

- N/A and/or data not specified

Toxicity/Persistence Value from Source Hazardous Substances:	1.00E+04
Toxicity/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	1.28E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18



Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
- N/A and/or data not specified		

Type of Surface Water Body	Total Population	Dilution-Weighted Population
- N/A and/or data not specified		

Dilution-Weighted Population Served by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: NO

Resource Value: 0.00E+00

Documentation for Resources:

NO RESOURCES IDENTIFIED.

Reference: REF. 5, PP. 2-3 OF 4

SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Source: 1 OWN DUMP

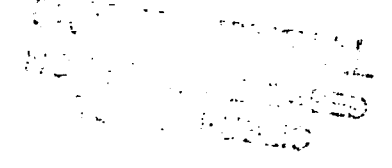
Source Hazardous Waste Quantity Value: 12.81

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Cadmium	10000	1.00E+00	5.00E+03	5.00E+07
Iron	0	1.00E+00	5.00E-01	0.00E+00
Lead	10000	1.00E+00	5.00E+01	5.00E+05

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
- N/A and/or data not specified					

Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+07
Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence/Bioaccumulation Factor:	5.00E+07
Sum of Source Hazardous Waste Quantity Values:	1.28E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	100



Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Disnt Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 SWAMP RIVER	1.0	River	2	0.0	1.00E+	3.00E-02
2 TEN MILE RIVER	1.0	River	10	0.0	1.00E-01	3.00E-03

Sum of (Pi*Di): 3.30E-02

Potential Human Food Chain Contamination Factor: 3.30E-03

Documentation for SWAMP RIVER Fishery:

ESTIMATED ANNUAL PRODUCTION AT 1 POUND PER YEAR, BASED ON NO DATA FROM THE NYSDEC SENIOR AQUATIC BIOLOGIST FOR REGION 3, WHICH COVERS DUTCHESS COUNTY.

THERE IS NO COMMERCIAL FISHING ON THE SWAMP RIVER. THE NYSDEC BIOLOGIST STATED THAT A STUDY (TOXIC SUBSTANCES IN FISH AND WILDLIFE ANALYES SINCE MAY 1, 1982, PUBLISHED SEPTEMBER 1987) HAD BEEN CONDUCTED AND NO CONTAMINANTS WERE FOUND IN FISH FROM SWAMP RIVER.

Reference: REF. 23, P. 1 OF 2

Documentation for TEN MILE RIVER Fishery:

ESTIMATED ANNUAL PRODUCTION OF 1 POUND PER YEAR, BASED ON NO DATA FROM NYSDEC SENIOR AQUATIC BIOLOGIST FOR REGION 3, WHICH COVERS DUTCHESS COUNTY.

THERE IS NO COMMERCIAL FISHING ON TENMILE RIVER. THE NYSDEC BIOLOGIST STATED THAT A STUDY (TOXIC SUBSTANCES IN FISH AND WILDLIFE ANALYSIS SINCE MAY 1, 1982, PUBLISHED SEPTEMBER 1987) HAD BEEN CONDUCTED AND NO CONTAMINANTS WERE FOUND IN FISH FROM TENMILE RIVER.

Reference: REF. 23, P. 1 OF 2

Food Chain Individual

Location of Nearest Fishery: SWAMP RIVER
Distance from the Probable Point of Entry: 0.00 miles
Type of Surface Water Body: River
Dilution Weight: 1.0000000
Level of Contamination: Potential

Food Chain Individual Factor: 20.00

Documentation for SWAMP RIVER:

SURFACE WATER FROM THEER TOWN DUMP SITE FIRST ENTERS AN UNAMED STATE/FEDRRAL REGULATED WETLAND LOCATED DIRECTLY SOUTH OF THE SITE BEFORE ENTERING THE SWAMP RIVER APPROXIMATELY .58 MILES FROM THE WETLANDS. THE SWAMP RIVER IS A NYS CLASS C WATERWAY, SUITABLE FOR FISHING AND FISH PROPAGATION. THE WATER QUALITY SHALL BE SUITABLE FOR PRIMARY AND SECONDARY CONTACT RECREATION EVEN THOUGH OTHER FACTORS MAY LIMIT THE USE FOR THAT PURPOSE.

Reference: REF. 17, PP. 4 & 7 OF 8; REF. 21, P. 1 OF 1

SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Source: 1 DOVER TOWN DUMP

Source Hazardous Waste Quantity Value: 12.81

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Cadmium	1000	1.00E+00	5.00E+03	5.00E+06
Iron	10	1.00E+00	5.00E-01	5.00E+00
Lead	1000	1.00E+00	5.00E+03	5.00E+06

SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value

- N/A and/or data not specified

Ecotoxicity/Persistence/Bioaccummation Value from Source Hazardous Substances:	5.00E+06
Ecotoxicity/Persistence/Bioaccummulation Value from Observed Release Hazardous Substances:	0.00E+00
Ecotoxicity/Persistence/Bioaccummulation Factor:	5.00E+06
Sum of Source Hazardous Waste Quantity Values:	1.28E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	56

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value
River	2 BOG TURTLE	50

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value
River	1 SWAMP RIVER	4.54	150
River	3 TENMILE RIVER	0.28	25

Documentation for Sensitive Environment SWAMP RIVER :

THE DISTANCE OF WETLAND AREA BORDERING THE SWAMP RIVER, AS SHOWN ON A NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION WETLAND MAP, IS 12,000 FEET, WHICH IS 2.27 MILES. THIS DISTANCE WAS DOUBLED TO SHOW THE ACTUAL AMOUNT OF WETLAND FRONTAGE FOR THE SWAMP RIVER.

Reference: REF. 20, P. 1 OF 1; REF. 21, P. 1 OF 1

Documentation for Sensitive Environment BOG TURTLE:

BOG TURTLE
LAT/LONG = 414025/733423
FEDERAL STATUS IS A C2, WHICH MEANS CANDIDATE, CATEGORY 2 - THE TAXON MAY BE APPROPRIATE FOR LISTING BUT MORE DATA ARE NEEDED,

THEREFORE ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 3 & 13 OF 13

Documentation for Sensitive Environment TENMILE RIVER :

THE WETLANDS BORDERING THE TENMILE RIVER, AS MEASURED ON A NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION WETLAND MAP, MEASURES 750 FEET, WHICH IS .14 MILES. THIS DISTANCE WAS THEN DOUBLED TO SHOW THE TOTAL AMOUNT OF FRONTAGE ALONG THE TENMILE RIVER.

Reference: REF. 20, P. 1 OF 1; REF. 21, P. 1 OF 1

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)
Minimal Stream	50	150	1.00E+00	2.00E+02

Sum of Dj(Wj+Sj): 2.00E+02
Sum of Dj(Wj+Sj)/10: 2.00E+01

Potential Contamination Sensitive Environment Factor: 2.00E+01

SURFACE WATER PATHWAY GW TO SW CONTAINMENT SUMMARY
DOVER TOWN DUMP - 03/14/95

Containment

No.	Source ID	HWQ Value	Containment Value
1	DOVER TOWN DUMP	1.28E+01	10
	Containment Factor		10

Documentation for Ground Water Containment, Source DOVER TOWN DUMP:

NO LINER OR LEACHATE CONTROL SYSTEM WAS INSTALLED BEFORE LANDFILLING BEGAN.

Reference: REF. 3, P. 11 OF 221

Net Precipitation

Net Precipitation (inches)	0.00

Documentation for Net Precipitation:

NET PRECIPITATION FACTOR VALUES, HRS FIGURE 3-2, BASED ON SITE LOCATION.

Reference: REF. 1, P. 1 OF 1

SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE
DOVER TOWN DUMP - 03/14/95

Aquifer: GLACIAL TILL

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for GLACIAL TILL Aquifer:

UNCONSOLIDATED MATERIAL DEPOSITED CHIEFLY BY GLACIERS AND GLACIAL MELT WATER IN PLEISTOCENE TIME, LIES ON THE BEDROCK IN DUTCHESS COUNTY.
GLACIAL TILL IS NOT A PRODUCTIVE WATER-BEARING DEPOSIT BECAUSE OF ITS POOR SORTING AND HIGH CLAY CONTENT. WATER IN USABLE QUANTITIES CAN GENERALLY BE OBTAINED FROM TILL ONLY FROM LARGE-DITER WELLS.

Reference: REF 13, PP. 5 & 7 OF 10

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Observed Release Factor 0

SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE
DOVER TOWN DUMP - 03/14/95

POTENTIAL TO RELEASE

Ground Water to Surface Water Angle

Probable Point of Entry	0.00	miles
Angle Theta	252	

Documentation for Ground to Surface Water PPE and Angle Theta:

THE OVERLAND FLOW (STATE AND FEDERAL REGULATED WETLAND SOUTH OF THE SITE) PPE IS 0.18 MILES, ALSO THE GROUNDWATER TO SURFACE WATER (WETLAND) PPE IS 0.18 MILES FROM THE OVERLAND PPE. THEREFORE THE DISTANCE BETWEEN THE PPEs IS 0.0.

THE ANGLE THETA WAS DETERMINED FROM THE DOVER PLAINS QUADRANGLE. THE MAXIMUM ANGLE FOR THE SWAMP RIVER WAS 110, AND THE MAXIMUM ANGLE FOR THE TENMILE RIVER WAS 142. SINCE BOTH OF THESE WERE WITHIN ONE MILE OF THE SITE, THE SUM WAS TAKEN, FOR A TOTAL OF 252 DEGREES.

Reference: REF. 26, P. 1 OF 1; REF. PP. 23 AND 24 OF 221

Containment

Containment Factor	10

Net Precipitation

Net Precipitation Factor	6

Depth to Aquifer

A. Depth of Hazardous Substances	15.00	feet

SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE
DOVER TOWN DUMP - 03/14/95

Documentation foDepth of Hazardous Substances:

WASTES WERE LANDFILLED DIRECTLY OVER THE GROUND SURFACE. THE NEW GROUND SURFACE IS ESTIMATED TO BE ABOUT 15 FEET ABOVE THE OLD GROUND SURFACE BASED ON THE OLD DUMP FACE AND COMPACTION.

Reference: REF. 3, P. 48 OF 221

B. Depth to Aquifer from Surface	21.00	feet

Documentation for Depth to Aquifer from Surface :

THE NEW GROUND SURFACE IS ESTIMATED TO BE APPROXIMATELY 15 FEET ABOVE THE OLD GROUND SURFACE AND DOVER SOILS, CONSISTING OF TILL AND WEATHERED PRODUCTS OF THE UNDERLYING LIMESTONE. THE DEPTH TO GROUNDWATER IS ESTIMATED TO BE APPROXIMATELY SIX FEET BELOW THE ORIGINAL GROUND SURFACE, OR APPROXIMATELY 21 FEET BELOW THE NEW GROUND SURFACE.

Reference: REF. 3, PP. 24 AND 48 OF 221

C. Depth to Aquifer (B - A)	6.00	feet
Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO

Documentation for Karst Layers:

MOST OF THE TILL IS CLAYEY AND SOME OF IT MAY EVEN BE CEMENTED OF COMPACTED TO FORM A TOUGH AGGREGATE REFERRED TO AS "HARDPAN" BY LOCAL DRILLERS.

Reference: REF. 13 P. 6 OF 10

Thickness of Layer(s) with Lowest Conductivity 6.00 feet

Documentation for Thickness of Layers with Lowest Conductivity:

DOVER SOILS ARE DERIVED FROM GLACIAL TILL AND WEATHERED PRODUCTS OF THE UNDERLYING LIMESTONE. THE ESTIMATED LAYER BETWEEN THE LOWEST POINT OF CONTAMINATION AT 15 FEET AND THE AQUIFER AT 21 FEET IS THE GLACIAL TILL. HYDRAULIC CONDUCTIVITY DETERMINED FROM HRS TABLE 3-6, SINCE NO DATA IS AVAILABLE.

Reference: REF. 3, P. 24 OF 221;EF. 1, P. 1 OF 1

Hydraulic Conductivity (cm/sec) 1.0E-08

Documentation for Hydraulic Conductivity:

GLACIAL TILL IS NOT A PRODUCTIVE WATER-BEARING DEPOSIT BECAUSE OF ITS POOR SORTING AND HIGH CLAY CONTENT. THEREFORE PER HRS TABLE 3-6, HYDRAULIC CONDUCTIVITY OF 10 -8.

Reference: REF. 13, P. 7 OF 10; 1, P. 1 OF 1

Travel Time Factor 35

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Potential to Release Factor 460

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Source: 1 DOVER TOWN DUMP

Source Hazardous Waste Quantity Value: 12.81

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobililty/ Persistence
Cadmium	10000	1.00E+00	2.00E-01	2.00E+03
Iron	0	1.00E+00	1.00E-02	0.00E+00
Lead	10000	1.00E+00	2.00E-05	2.00E-01

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Factor Value	Persist. Value	Toxicity/ Persistence

- N/A and/or data not specified

Toxicity/Mobility/Persistence Value from Source Hazardous Substances:	2.00E+03
oxicity/Mobility/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility/Persistence Factor:	2.00E+03
Sum of Source Hazardous Waste Quantity Values:	1.28E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	10

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
- N/A and/or data not specified		

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
- N/A and/or data not specified		

Type of Surface Water Body	Total Population	Dilution-Weighted Population
- N/A and/or data not specified		

Dilution-Weighted Population Served
by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: NO

Resource Value: 0.00E+00

Documentation for Resources:

NO RESOURCES IDENTIFIED.

Reference: REF. 5, PP. 2-3 OF 4

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Source: 1 DOVER TOWN DUMP

Source Hazardous Waste Quantity Value: 12.81

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio-accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
Cadmium	10000	1.00E+00	2.00E-01	5.00E+03	1.00E+07
Iron	0	1.00E+00	1.00E-02	5.00E-01	0.00E+00
Lead	10000	1.00E+00	2.00E-	5.00E+01	1.00E+01

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Value	Persist. Value	Bio-accum. Value	Toxicity/ Persistence Bioaccum. Value

- N/A and/or data not specified

Toxicity/Mobility/Persistence/Bioaccumulation Value from Source Hazardous Substances:	1.00E+07
Toxicity/Mobility/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility/Persistence/Bioaccumulation Factor:	1.00E+07
Sum of Source Hazardous Waste Quantity Values:	1.28E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	100

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

Fishery	Annual Production (pounds)	Human ood Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
- N/A and/or data not specified		

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

SW PATHWAY: GW TO SW COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 SWAMP RIVER	1.0	River	2	0.0	7.00E-01	2.10E-02
2 TEN MILE RIVER	1.0	River	10	0.0	7.00E-02	2.10E-03

Sum of (Pi*Di): 2.31E-02

Potential Human Food Chain Contamination Factor: 2.31E-03

Documentation for SWAMP RIVER Fishery:

ESTIMATED ANNUAL PRODUCTION AT 1 POUND PER YEAR, BASED ON NO DATA FROM THE NYSDEC SENIOR AQUATIC BIOLOGIST FOR REGION 3, WHICH COVERS DUTCHESS COUNTY.

THEIS NO COMMERCIAL FISHING ON THE SWAMP RIVER. THE NYSDEC BIOLOGIST STATED THAT A STUDY (TOXIC SUBSTANCES IN FISH AND WILDLIFE ANALYES SINCE MAY 1, 1982, PUBLISHED SEPTEMBER 1987) HAD BEEN CONDUCTED AND NO CONTAMINANTS WERE FOUND IN FISH FROM SWAMP RIVER.

Reference: REF. 23, P. 1 OF 2

Documentation for TEN MILE RIVER Fishery:

ESTIMATED ANNUAL PRODUCTION OF 1 POUND PER YEAR, BASED ON NO DATA FROM NYSDEC SENIOR AQUATIC BIOLOGIST FOR REGION 3, WHICH COVERS DUTCHESS COUNTY.

THERE IS NO COMMERCIAL FISHING ON TENMILE RIVER. THE NYSDEC BIOLOGIST STATED THAT A STUDY (TOXIC SUBSTANCES IN FISH AND WILDLIFE ANALYSIS SINCE MAY 1, 1982, PUBLISHED SEPTEMBER 1987) HAD BEEN CONDUCTED AND NO CONTAMINANTS WERE FOUND IN FISH FROM TENMILE RIVER.

Reference: REF. 23, P. 1 OF 2

Food Chain Individual

Location of Nearest Fishery: SWAMP RIVER
Distance from the Probable Point of Entry: 0.00 miles
Type of Surface Water Body: River
Dilution Weight: 0.7000000
Level of Contamination: Potential

Food Chain Individual Factor: 20.00

Documentation for SWAMP RIVER:

SURFACE WATER FROM THE DOVER TOWN DUMP SITE FIRST ENTERS AN UNAMED STATE/FEDRRAL REGULATED WETLAND LOCATED DIRECTLY SOUTH OF THE SITE BEFORE ENTERING THE SWAMP RIVER APPROXIMATELY .58 MILES FROM THE WETLANDS. THE SWAMP RIVER IS A NYS CLASS C WATERWAY, SUITABLE FOR FISHING AND FISH PROPAGATION. THE WATER QUALITY SHALL BE SUITABLE FOR PRIMARY AND SECONDARY CONTACT RECREATION EVEN THOUGH OTHER FACTORS MAY LIMIT THE USE FOR THAT PURPOSE.

Reference: REF. 17, PP. 4 & 7 OF 8; REF. 21, P OF 1

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Source: 1 DOVER TOWN DUMP

Source Hazardous Waste Quantity Value: 12.81

Hazardous Substance	Eco-toxicity Value	Persist. Value	Mob. Value	Bio-accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Cadmium	1000	1.00E+00	2.00E-01	5.00E+03	1.00E+06
Iron	10	1.00E+00	1.00E-02	5.00E-01	5.00E-02
Lead	1000	1.00E+00	2.00E-05	5.00E+03	1.00E+02

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Eco-toxicity Value	Persist. Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
- N/A and/or data not specified				

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Source Substances:	1.00E+06
Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Observed Hazardous Substances:	0.00E+00
Ecotoxicity/Mobility/Persistence/Bioaccummulation Factor:	1.00E+06
Sum of Source Hazardous Waste Quantity Values:	1.28E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	56

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value
River	2 BOG TURTLE	50

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value
River	1 SWAMP RIVER	4.54	150
River	3 TENMILE RIVER	0.28	25

Documentation for Sensitive Environment SWAMP RIVER :

THE DISTANCE OF WETLAND AREA BORDERING THE SWAMP RIVER, AS SHOWN ON A NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION WETLAND MAP, IS 12,000 FEET, WHICH IS 2.27 MILES. THIS DISTANCE WAS DOUBLED TO SHOW THE ACTUAL AMOUNT OF WETLAND FRONTAGE R THE SWAMP RIVER.

Reference: REF. 20, P. 1 OF 1; REF. 21, P. 1 OF 1

Documentation for Sensitive Environment BOG TURTLE:

BOG TURTLE
LAT/LONG = 414025/733423
FEDERAL STATUS IS A C2, WHICH MEANS CANDIDATE, CATEGORY 2 - THE TAXON MAY BE APPROPRIATE FOR LISTING BUT MORE DATA ARE NEEDED,

THEREFORE ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 3 & 13 OF 13

Documentation for Sensitive Environment TENMILE RIVER :

THE WETLANDS BORDERING THE TENMILE RIVER, AS MEASURED ON A NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION WETLAND MAP, MEASURES 750 FEET, WHICH IS .14 MILES. THIS DISTANCE WAS THEN DOUBLED TO SHOW THE TOTAL AMOUNT OF FRONTAGE ALONG THE TENMILE RIVER.

Reference: REF. 20, P. 1 OF 1; REF. 21, P. 1 OF 1

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)
Minimal Stream	50	150	7.00E-01	1.40E+02

Sum of Dj(Wj+Sj): 1.40E+02
Sum of Dj(Wj+Sj)/10: 1.40E+01

Potential Contamination Sensitive Environment Factor: 1.40E+01

SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE
DOVER TOWN DUMP - 03/14/95

Likelihood of Exposure

No.	ource ID	Level of Contamination
1	DOVER TOWN DUMP	Level II

Likelihood of Exposure Factor: 550

Documentation for Area of Contamination, Source DOVER TOWN DUMP:

NO AVAILABLE DATA TO ESTABLISH AREAS OF ACTUAL CONTAMINATION. THEREFORE, AREA OF OBSERVERED CONTAMINATION IS ZERO.

Reference:

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Cadmium	< 2	0.0E+00	0.0E+00	2.9E+02	ppm
1	Iron	< 2	0.0E+00	0.0E+00	0.0E+00	ppm
1	Lead	< 2	0.0E+00	0.0E+00	0.0E+00	ppm

Documentation for Source DOVER TOWN DUMP, Contaminants:

A LEACHATE SAMPLE WAS COLLECTED ON DECEMBER 17, 1979 BY THE DUTCHESS COUNTY HEALTH DEPARTMENT (DCHD). THE DATA IS NOT VALIDATED FROM THIS SAMPLING EVENT, NOR ARE THERE ANY APPLICABLE BACKGROUND DATA AVAILABLE. HOWEVER, THIS DATA WAS USED TO CHARACTERIZE THE SITE FOR SCREENING PURPOSES.

Reference: REF. 10, P. 1 OF 2

SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Source: 1 DOVER TOWN DUMP

Source Hazardous Waste Quantity Value: 1.28

Hazardous Substance	Toxicity Value
Cadmium	10000
Iron	0
Lead	10000

SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS

DOVER TOWN DUMP - 03/14/95

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantitlues:	1.28E+00
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Targets

Level I Population: 0.0 Value: 0.00

Documentation for Level I Population:

THERE ARE NO ON-SITE RESIDENTS AT (OR WITHIN 200 FT) THE DOVER TOWN DUMP SITE.

Reference: REF. 4, P. 3 OF 8

Level II Population: 0.0 Value: 0.00

Documentation for Level II Population:

THERE ARE NO ON-SITE RESIDENTS LOCATED ON (OR WITHIN 200 FT OF THE OBSERVED LEACHATE) THE DOVER TOWN DUMP SITE.

Reference: REF. 4, P. 3 OF 8

Workers: 0.0 Value: 0.00

Documentation for Workers:

THERE ARE NO ON-SITE WORKERS LOCATED ON THE DOVER TOWN DUMP SITE.

Reference: REF. 4, P. 3 OF 8

Resident Individual: Potentia Value: 0.00

Resources: NO Value: 0.00

SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Documentation for Resources:

NO RESOURCES IDENTIFIED

Reference: REF. 4, PP. 1-4 OF 8

Terrestial Sensitive Environment	Value
- N/A and/or data not specified	

Terrestrial Sensitive Environments Factor: 0.00

SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
DOVER TOWN DUMP - 03/14/95

Likelihood of Exposure

No.	Source ID	Level of Contamination	Attractiveness/ Accessibity	Area of Contam. (sq. feet)
1	DOVER TOWN DUMP	Level II	10	0

Highest Attractiveness/Accessibility Value: 10
Sum of Eligible Areas Of Contamination (sq. feet): 0
Area of Contamination Value: 0

Likelihood of Exposure Factor Category: 0

Documentation for Attractiveness/Accessibility, Source DOVER TOWN DUMP:

DURING THE SITE INSPECTION VISIT (DECEMBER 1, 1994), IT WAS OBSERVED THAT NO FENCE CONFINES THE DOVER TOWN DUMP SITE.

Reference: REF. 4, P. 3 OF 8

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Cadmium	< 2	0.0E+00	0.0E+00	2.9E+02	ppm
1	Iron	< 2	0.0E+00	0.0E+00	0.0E+00	ppm
1	Lead	< 2	0.0E+00	0.0E+00	0.0E+00	ppm

Documentation for Source DOVER TOWN DUMP, Contaminants:

A LEACHATE SAMPLE WAS COLLECTED ON DECEMBER 17, 1979 BY THE DUTCHESS COUNTY HEALTH DEPARTMENT (DCHD). THE DATA IS NOT VALIDATED FROM THIS SAMPLING EVENT, NOR ARE THERE ANY APPLICABLE BACKGROUND DATA AVAILABLE. HOWEVER, THIS DATA WAS USED TO CHARACTERIZE THE SITE FOR SCREENING PURPOSES.

Reference: REF. 10, P. 1 OF 2

SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Source: 1 DOVER TOWN DUMP

Source Hazardous Waste Quantity Value: 1.28

Hazardous Substance	Toxicity Value
Cadmium	10000
Iron	0
Lead	10000

SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	1.28E+00
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Nearby Individual

Population within 1/4 mile: 34.0

Nearby Individual Value: 1.0

Population Within 1 Mile

Travel Distance Category	Number of People	Value
> 0 to 1/4 mile	34.0	0.1
> 1/4 to 1/2 mile	81.6	0.1
> 1/2 to 1 mile	293.9	0.1
Population Within 1 Mile Factor:		0.3

Documentation for Population > 0 to 1/4 mile Distance Category:

CENTRACTS REPORT FROM FROST ASSOCIATES (NOVEMBER 18, 1994), FOR RADIUS OF .25 MILES, POPULATION = 34.04

Reference: REF. 14, P. 8 OF 16

Documentation for Population > 1/4 to 1/2 mile Distance Category:

CENTRACTS REPORT FROM FROST ASSOCIATES (NOVEMBER 18, 1994) FOR RADIUS OF .5 MILE, POPULATION = 81.61

Reference: REF. 14, P. 8 OF 16

SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT TARGETS
DOVER TOWN DUMP - 03/14/95

Documentation for Population > 1/2 to 1 mile Distance Category:

CENTRACTS REPORT FROM FROST ASSOCIATES (NOVEMBER 18, 1994) FOR RADIUS OF 1 MILE, POPULATION = 293.92

Reference: REF. 14, P. 7 OF 16

AIR PATHWAY LIKELIHOOD OF RELEASE
DOVER TOWN DUMP - 03/14/95

OBSERVED RELEASE

No.	Sample ID	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Observed Release Factor: 0

Gas Migration Potential

GAS POTENTIAL TO RELEASE

Source ID	Source Type	Gas Contain. Value (A)	Gas Source Type Value (B)	Gas Migrtn. Potent. Value (C)	Sum (B+C)	Gas Potential to Rel. Value A(B+C)
- N/A and/or data not specified						

Gas Potential to Release Factor: 0

Documentation for Gas Containment, Source DOVER TOWN DUMP:

AMOUNT OF UNCONTAMINATED SOIL COVER IS UNKNOWN. DURING THE SITE INSPECTION THE OWNER STATED THAT HE FELT THAT THE LANDFILL CAPPING JOB WAS INADEQUATE, THEREFORE A GAS CONTAINMENT FACTOR OF 10.

Reference: REF. 4, P. 1 OF 8

Documentation for Source Type, Source DOVER TOWN DUMP:

THE SITE HAS AN INACTIVE LANDFILL LOCATED ON SITE.

Reference: REF. 4, P. 1 OF 8

AIR PATHWAY LIKELIHOOD OF RELEASE
DOVER TOWN DUMP - 03/14/95

Source: DOVER TOWN DUMP

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value

Average of Gas Migration Potential Value for 3 Hazardous Substances: 0.000

Gas Migration Potential Value From Table 6-7: 0

AIR PATHWAY LIKELIHOOD OF RELEASE
DOVER TOWN DUMP - 03/14/95

Particulate Migration Potential

PARTICULATE POTENTIAL TO RELEASE

Source ID	Source Type	Partic. Contain. Value (A)	Partic. Source Type Value (B)	Partic. Migrtn. Potent. Value (C)	Sum (B+C)	Partic. Potential to Rel. Value A(B+C)
DOVER TOWN DUMP	Landfill	10	22	6	28	280

Particulate Potential to Release Factor: 280

Documentation for Particulate Containment, Source DOVER TOWN DUMP:

AMOUNT OF UNCONTAMINATED SOIL COVER UNKNOWN. DURING SITE INSPECTION, THE LAND OWNER STATED THAT HE FELT THAT THE LANDFILL CAPPING WAS INADEQUATE, THEREFORE A PARTICULATE GAS CONTAINMENT FACTOR VALUE OF 10.

Reference: REF. 4, P. 1 OF 8

Documentation for Source Type, Source DOVER TOWN DUMP:

THE SITE HAS AN INACTIVE LANDFILL LOCATED ON SITE.

Reference: REF. 4, P. 1 OF 8

Documentation for Particulate Migration Potential:

PARTICULATE MIGRATION POTENTIAL FACTOR VALUE WAS DERIVED USING HRS FIGURE 6-2

Reference: REF. 1, P. 1 OF 1

Source: DOVER TOWN DUMP

Particulate Hazardous Substance
Cadmium
Iron
Lead

AIR PATHWAY WASTE CHARACTERISTICS
DOVER TOWN DUMP - 03/14/95

Source: 1 DOVER TOWN DUMP

Source Hazardous Waste Quantity Value: 12.81

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Cadmium	10000	NA	8.00E-04	8.00E+00
Iron	100	NA	8.00E-04	8.00E-02
Lead	10000	NA	8.00E-04	8.00E+00

Hazardous Substances Found in an Observed Release

Sample ID	Observed Release Hazardous Substance	Particulate Toxicity/ Mobility Value	Gas Toxicity/ Mobility Value

- N/A and/or data not specified

Documentation for Particulate Mobility:

THE PARTICULATE MOBILITY FACTOR VALUE WAS DERIVED USING HRS FIGURE 6-3.

Reference: REF. 1, P. 1 OF 1

Toxicity/Mobility Value from Source Hazardous Substances:	8.00E+00
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	8.00E+00
Sum of Source Hazardous Waste Quantity Values:	1.28E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	2

AIR PATHWAY TARGETS
DOVER TOWN DUMP - 03/14/95

Actual Contamination

No.	Sample ID	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Potential Contamination

Distance Categories Subject to Potential Contamination	Population	Value
Onsite	0.0	0.0000
> 0 to 1/4 mile	44.3	1.3000
> 1/4 to 1/2 mile	103.3	0.9000
> 1/2 to 1 mile	373.6	0.8000
> 1 to 2 miles	1031.0	0.8000
> 2 to 3 miles	2397.3	0.4000
> 3 to 4 miles	2417.0	0.2000
	Potential Contaminantion Factor:	4.0000

Documentation for Population Onsite Distance Category:

THERE ARE NO ON-SITE RESIDENTS LOCATED AT THE DOVER TOWN DUMP.

Reference: REF. 4, P. 3 OF 4

Documentation for Population > 0 to 1/4 mile Distance Category:

CENTRACTS REPORT
0.0 TO 0.25 MILES, POPULATION = 44.27

Reference: REF. 14, P. 8 OF 16

Documentation for Population > 1/4 to 1/2 mile Distance Category:

CENTRACTS REPORT
0.25 TO 0.50 MILES, POPULATION = 103.26

Reference: REF. 14, P. 8 OF 16

Documentation for Population > 1/2 to 1 mile Distance Category:

CENTRACTS REPORT
0.50 TO 1.00 MILES, POPULATION = 373.57

Reference: REF. 14, P. 7 OF 16

Documentation for Population > 1 to 2 miles Distance Category:

CENTRACTS REPORT
1.00 TO 2.00 MILES, POPULATION = 1031.05

Reference: REF. 14, P. 7 OF 16

Documentation for Population > 2 to 3 miles Distance Category:

CENTRACTS REPORT
2.00 TO 3.00 MILES, POPULATION = 2397.27*
* - POPULATION ALSO INCLUDES CONNECTICUT PORTION, CALCULATION AS FOLLOWS:
(2372.09) NY RESIDENTS + (25.18) CT RESIDENTS = 2397.27

Reference: REF. 14, PP. 7 & 16 OF 16

Documentation for Population > 3 to 4 miles Distance Category:

CENTRACTS REPORT
3.00 TO 4.00 MILES, POPULATION = 2416.99*
* - POPULATION ALSO INCLUDES CONNECTICUT PORTION, CALCUATION AS FOLLOWS:
(2081.09)NY + (335.90)CT = 2416.99

Reference: REF. 14, PP. 7 & 16 OF 16

Nearest Individual Factor

Level of Contamination: Potential
Distance in miles: > 0 to 1

Nearest Individual Value: 7

Documentation for Nearest Individual:

THE NEAREST INDIVIDUAL COINCIDES WITH THE NEAREST WELL, WHICH IS LOCATED .14 MILE FROM THE DOVER TOWN DUMP.

Reference: REF. 4, P. 3 OF 8

Resources

Resource Use: NO

Resource Value: 0

Documentation for Resources:

NO RESOURCES IDENTIFIED

Reference: REF. 4, PP. 1-4 OF 8

Actual Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Actual Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value
- N/A and/or data not specified		

Sensitive Environments Actual Contamination Factor: 0.000
(Sum of Sensitive Environments + Wetlands Values)

AIR PATHWAY TARGETS
DOVER TOWN DUMP - 03/14/95

Potential Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10
RED CEDAR ROCKY SUM	2.170	50	0.0023	0.011
RICH GRAMINOID FEN	3.500	50	0.0014	0.007
BOG TURTLE	0.340	50	0.0540	0.270
TIMBER RATTLESNAKE	1.550	50	0.0051	0.026
GREEN MILKWEED	1.150	50	0.0051	0.026
SIDE-OATS GRAMA	2.170	50	0.0023	0.011
BICKNELL SEDGE	1.150	50	0.0051	0.026
BLAZING STAR	1.360	50	0.0051	0.026
CAROLINA WHITLOW-GR	1.150	50	0.0051	0.026
MOCK-PENNYROYAL	3.400	50	0.0014	0.007
VIOLET LESPEDEZA	0.660	50	0.0160	0.080
YELLOW WILD FLAX	1.150	50	0.0051	0.026
LARGE TWAYBLADE	1.680	50	0.0051	0.026
VIRGINIA FALSE GROM	3.210	50	0.0014	0.007
TORREY'S MTAIN-M	3.210	50	0.0014	0.007
NE BLAZING STAR	3.210	50	0.0014	0.007

Sum of Sensitive Environments Weighted Values/10: 0.587

Potential Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value	Distance Weight	Weighted Value/10
> 3 to 4 miles	663.3	500.0	0.0014	0.070
> 2 to 3 miles	542.6	500.0	0.0023	0.115
> 1 to 2 miles	698.6	500.0	0.0051	0.255
> 1/2 to 1 mile	268.9	250.0	0.0160	0.400
> 1/4 to 1/2 mile	27.5	25.0	0.0540	0.135
> 0 to 1/4 mile	3.2	25.0	0.2500	0.625

Total Wetland Acreage: 2204.1

Sum of Wetland Weighted Acreage Values/10: 1.600

Sensitive Environment Potential Contamination Factor: 2.000

Documentation for Sensitive Environment WETLAND:

WETLAND ACREAGE DETERMINED MANUALLLY USING A PLANIMETER, TO BE 3.2 ACRES, FROM 0 TO 0.25 MILES.

Reference: REF. 26, P. 1 OF 1

Documentation for Sensitive Environment WETLAND:

WETLAND ACREAGE DETERMINED MANUALLY USING A PLANIMETER, TO BE 27.5 ACRES, FROM 0.25 TO 0.50 MILES.

Reference: REF. 26, P. 1 OF 1

Documentation for Sensitive Environment WETLAND:

WETLAND ACREAGE DETERMINED MANUALLY USING A PLANIMETER, TO BE 268.9 ACRES, FROM 0.50 TO 1.00 MILES.

Reference: REF. 26, P. 1 OF 1

Documentation for Sensitive Environment WETLAND:

WETLAND ACREAGE DETERMINED MANUALLY USING A PLANIMETER, TO BE 689.6 FROM 1.00 TO 2.00 MILES.

Reference: REF. 26, P. 1 OF 1

Documentation for Sensitive Environment WETLAND:

WETLAND ACREAGE DETERMINED MANUALLY USING A PLANIMETER, TO BE 524.6 ACRES, FROM 2.00 TO 3.00 MILES.

Reference: REF. 26, P. 1 OF 1

Documentation for Sensitive Environment WETLAND:

WETLAND ACREAGE DETERMINED MANUALLY USING A PLANIMETER, TO BE 663.3 ACRES, FROM 3.00 TO 4.00 MILES.

Reference: REF. 26, P. 1 OF 1

Documentation for Sensitive Environment RED CEDAR ROCKY SUM:

RED CEDAR ROCKY SUMMIT
414237/733452
S3 = TYPICALLY 21 TO 100 OCCURENCES IN NEW YORK STATE
THEREFORE, ASSIGNED VALUE 50

Reference: REF. 22, PP. 3 & 13 OF 13

Documentation for Sensitive Environment RICH GRAMINOID FEN:

RICH GRAMINOID FEN
414343/733339
S1/S2 = TYPICALLY 5 OR FEWER/6 TO 20 OCCURENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE 50

Reference: REF. 22, PP. 3 & 13 OF 13

Documentation for Sensitive Environment BOG TURTLE:

BOG TURTLE
414025/733423
S2 = TYPICALLY 6 TO 20 OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE 50

Reference: REF. 22, PP. 3 & 13 OF 13

Documentation for Sensitive Environment TIMBER RATTLESNAKE:

TIMBER RATTLESNAKE
414047/733610
S3 = TYPICALLY 21 TO 100 OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE 50.

Reference: REF. 22, PP. 3 & 13 OF 13

Documentation for Sensitive Environment GREEN MILKWEED:

GREEN MILKWEED
414140/733500
S2 = TYPICALLY 6 TO 20 OCCURRENCES IN NEW YORK STATE.
THEREFORE ASSIGNED VALUE 50.

Reference: REF. 22, PP. 4 & 13 OF 13

Documentation for Sensitive Environment SIDE-OATS GRAMA:

SIDE-OATS GRAMA
414237/733452
S1 = TYPICALLY 5 OR FEWER OCCURRENCES IN NEW YORK STATE
THEREFORE ASSIGNED VALUE 50

Reference: REF. 22, PP. 4 & 13 OF 13

Documentation for Sensitive Environment BICKNELL SEDGE:

BICKNELL SEDGE
414140/733500
S2 = TYPICALLY 6 TO 20 OCCURRENCES IN NEW YORK STATE.
THEREFORE ASSIGNED VALUE 50.

Reference: REF. 22, PP. 5 & 13 OF 13

Documentation for Sensitive Environment BLAZING STAR:

BLAZING STAR
414151/733455
S2 = TYPICALLY 6 TO 20 OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE 50.

Reference: REF. 22, PP. 5 & 13 OF 13

Documentation for Sensitive Environment CAROLINA WHITLOW-GR:

CAROLINA WHITLOW-GRASS
414140/733500
S2 = TYPICALLY 6 TO 20 OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 5 & 13 OF 13

Documentation for Sensitive Environment MOCK-PENNYROYAL:

MOCK-PENNYROYAL
414344/733437
S2/S3 = TYPICALLY 6 TO 20/21 TO 100 OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 6 & 13 OF 13

Documentation for Sensitive Environment VIOLET LESPEDEZA:

VIOLET LESPEDEZA
414014/733443
S1 = TYPICALLY 5 OR FEWER OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 6 & 13 OF 13

Documentation for Sensitive Environment YELLOW WILD FLAX:

YELLOW WILD FLAX
414140/733500
S2 = TYPICALLY 6 TO 20 OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 6 & 13 OF 13

Documentation for Sensitive Environment LARGE TWAYBLADE:

LARGE TWAYBLADE
414218/733414
S1/S2 = TYPICALLY 5 OR FEWER/6 TO 20 OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 6 & 13 OF 13

Documentation for Sensitive Environment VIRGINIA FALSE GROM:

VIRGINIA FALSE GROMWELL
414332/733452
S1 = TYPICALLY 5 OR FEWER OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 7 & 13 OF 13

Documentation for Sensitive Environment TORREY'S MOUNTAIN-M:

TORREY'S MOUNTAIN-MINT
414332/733452
S1 = TYPICALLY 5 OR FEWER OCCURRENCES IN NEW YORK STATE.
THEREFORE, ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 7 & 13 OF 13

Documentation for Sensitive Environment NE BLAZING STAR:

NEW ENGLAND BLAZING-STAR
414332/733452
S2/S3 = TYPICALLY 6 TO 20/ 21 TO 100 OCCURRENCES IN NEW YORK STATE.
C2 = TAXON MAY BE APPROPRIATE FOR LISTING BUT MORE DATA ARE NEEDED, BEFORE FEDERAL LISTING.
THEREFORE, ASSIGNED VALUE OF 50.

Reference: REF. 22, PP. 6 & 13 OF 13